



PATENT  
Attny Dkt No.: 51637-75

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: KRANTZ, David A. et al.

Appl'n No.: 10/808,347

Filing Date: 25 March 2004

For: SYSTEM AND METHOD FOR UTILIZING SHAPE  
ANALYSIS TO ASSESS FETAL ABNORMALITY

Group Art Unit: 3736

Examiner: n/a

**MS Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97 & § 1.98**

Sir:

Under the provisions of 37 C.F.R. § 1.97(b)(1), and in accordance with the Applicants' duty of disclosure under 37 C.F.R. § 1.56, Applicants would like to call to the Office's attention the references listed on the attached substitute form PTO-1449.

Pursuant to 37 C.F.R. § 1.98(a)(2)(ii), Applicants have not provided copies of the listed U.S. patents and U.S. patent application publications but will do so if required by the Office.


It is respectfully requested that the listed references be expressly considered during the prosecution of this application, that the Examiner initial each listed reference to evidence its consideration, and that the references be made of record therein and appear among the "References Cited" section on any patent to issue therefrom.

As this statement is being filed before the mailing of a first Office action on the merits pursuant to 37 C.F.R. § 1.97(b), no fee is believed due. However, the Office is hereby authorized to charge any fees required under 37 C.F.R. § 1.16 or § 1.17 or credit any overpayments to Deposit Account No. 11-0600.

The Office is invited to contact the undersigned at 202-220-4200 to discuss any matter regarding this application.

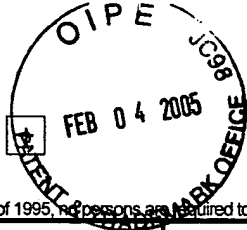
Respectfully submitted,

Dated: February 4, 2005

  
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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

2

### Complete if Known

Application Number	10/808,347
Filing Date	25 March 2004
First Named Inventor	KRANTZ, David A.
Group Art Unit	3736
Examiner Name	n/a
Attorney Docket Number	51637-75

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,235,981		HASCOET et al.	08-17-1993	
		5,252,489		MACRI	10-12-1993	
		5,588,435		WENG et al.	12-31-1996	
		5,740,266		WEISS et al.	04-14-1998	
		5,898,797		WEISS et al.	04-27-1999	
		6,048,314		NIKOM	04-11-2000	
		20020133075		ABDELHAK	09-19-2002	

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>6</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	94/14132	A1	WALD	06-23-1994		

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Signature

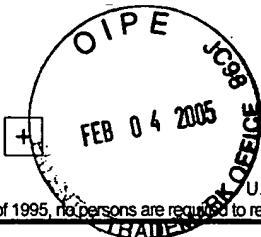
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 2

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KANOKWAN TANGCHAITRONG et al., "Fourier Analysis of Facial Profiles of Young Twins", American Journal of Physical Anthropology 113, 2000, pp. 369-379.	
		PETE E. LESTREL et al., "Fourier Analysis of the Cranium in Trisomy 21", August 10, 1976, pp. 385-398.	
		Help Screen from NTSYSPC, Version 2.1, Fourier Analysis	
		ANNABELLE AZANCOT, M.D., et al., "Analysis of Ventricular Shape by Echocardiography in normal fetus, newborns and infants" Volume 68, No. 6, December 1983, pp. 1201-1211.	
		IRWIN R. MERKATZ, M.D., et al., "An association between low maternal serum α-fetoprotein and fetal chromosomal abnormalities", Volume 148, No. 7, April 1, 1984, pp. 886-894.	
		C. LOCKWOOD, M.D., et al., "A sonographic screening method for Down Syndrome", October 1987, pp. 803-808.	
		MICHIEL C. VAN den HOF, M.D., et al., "Evaluation of the lemon and banana signs in one hundred thirty fetuses with open Spina Bifida, Volume 162, No. 2, February 1990, pp. 322-327.	
		J. E. ALLANSON, et al., "Anthropometric Craniofacial Pattern Profiles in Down Syndrome", 1993, Wiley-Liss, Inc., American Journal of Medical Genetics 47, pp. 748-752.	
		NOELLE STEMPFLE, et al., "Skeletal abnormalities in fetuses with Down's Syndrome: A radiographic Post-Mortem Study", Pediatric Radiol, 1999, pp. 682-687.	
		GEORGE STETTEN, et al. "Real-Time Three-Dimensional Ultrasound Methods for Shape Analysis and Visualization", 2001, pp. 221-230.	
		LESLIE G. FARKAS, M.D., "Surface Anatomy of the Face in Down's Syndrome: Age-Related Changes of Anthropometric Proportion Indices in the Craniofacial Regions", The Journal of Craniofacial Surgery, Volume 13, No. 3, May 2002, pp. 368-374.	

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Signature

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